STORM DATA



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L. Roy Hord

ACTING DIRECTOR

NATIONAL CLIMATIC CENTER

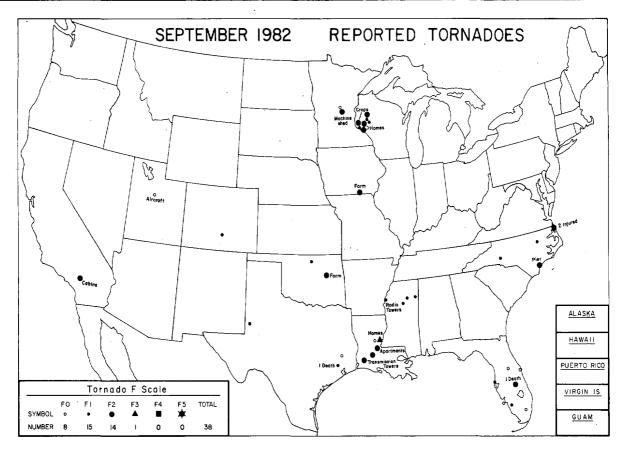
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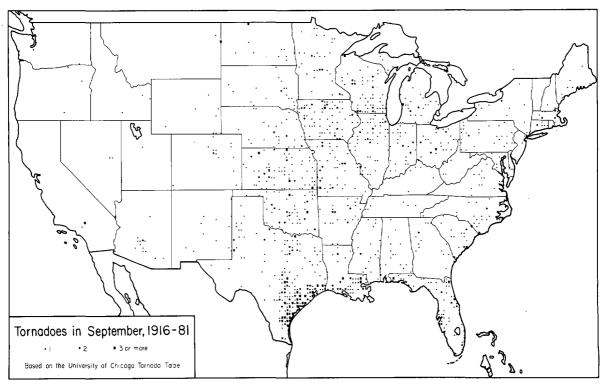
NOTE: The section on Outstanding Storms of the Month is prepared and edited by Professor T. Theodore Fujita, University of Chicago. The narrative descriptions of Storms by State and Summary of Hurricanes and Tropical Storms are prepared by the National Weather Service. The National Climatic Center compiles the statistics on deaths, injuries, and damage. This publication contains our best information on storms but, due to the difficulties inherent in collection of this type of data, it is not all-inclusive. Late Reports and Corrections will be carried quarterly.

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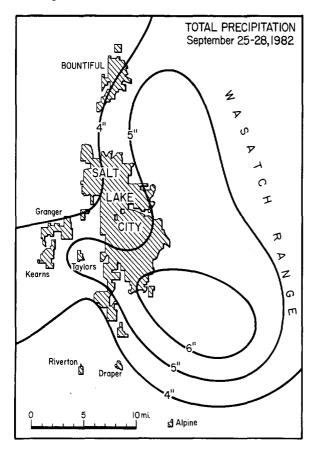
OUTSTANDING STORMS OF THE MONTH



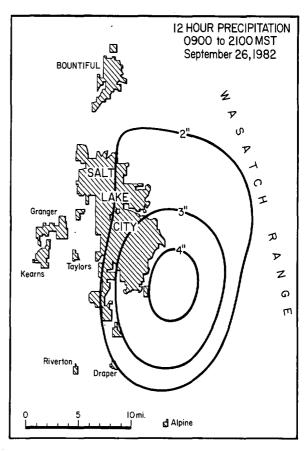
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● 4 <u>CA</u> (N)	● 8 <u>FL</u>	●13 <u>IA</u>	● 18 <u>M</u> D	● 23 <u>M0</u>	●28 <u>NJ</u>	■ 31 NC	●36 <u>PA</u> (E)	●40 <u>TN</u>	●43 <u>VT</u>	● 48 <u>₩ Y</u>	● 53 <u>G</u> l
• 4 <u>CA(S)</u>	● 9 <u>GA</u>	■ 14KS	○19 <u>MA</u>	● 24 <u>MT</u>	●29 <u>NM</u>	32 ND	●36 <u>PA</u> (W)	●41 <u>TX</u> (N)	● 44 <u>VA</u>	●49 <u>AK</u>	



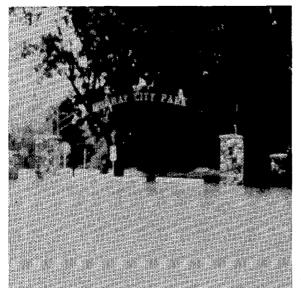
A fall storm, supplied with moisture from the remnants of Hurricane OLIVIA, dumped unusually heavy rain over Utah on September 25th to 28th. The heaviest rain fell over the west (windward) slopes of the Wasatch Mountains, the runoff from which caused flooding of creeks and rivers in southern sections of the Salt Lake City area.



A map of total rainfall for the 4-day storm period over the Salt Lake City area and nearby Wasatch Mountains.



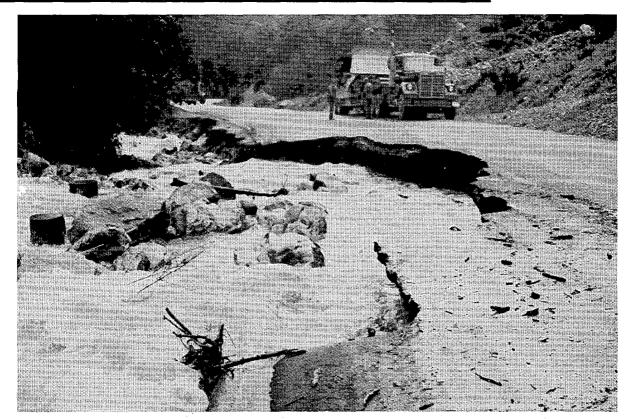
A map of total rainfall for the 12-hour period when the heaviest rains fell and most of the flooding occurred.



Murray City Park, just south of Salt Lake City, engulfed by floodwaters on the afternoon of September 26th. ---Photo by William Alder.



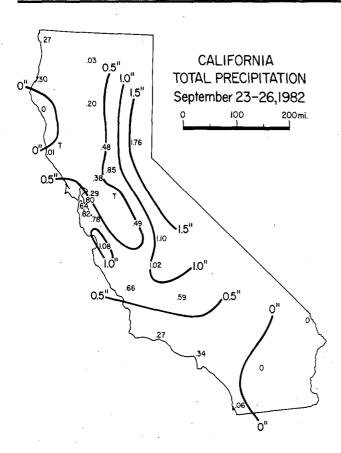
Mudslide across a road in Big Cottonwood Canyon in the Wasatch Mountains on the morning of September 29th. ---Photo by David Carpenter.



A portion of road in the Big Cottonwood Canyon which was eroded away. This picture, taken September 29th, also shows heavy equipment brought in to clear away mudslides and correct the stream path so road repairs can be made. ---Photo by David Carpenter.

---All maps and photos supplied by David Carpenter, NWSFO Salt Lake City, Utah.

2. RAIN in CALIFORNIA on September 23-26, 1982



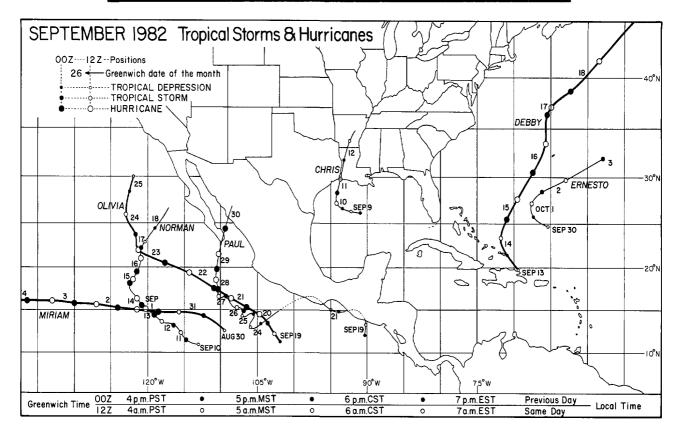
Unseasonable rain which had spread northward from the dissipating hurricane OLIVIA, dampened the normally dry early fall weather over California on September 23rd to 26th. Rainfall amounts, mapped at left, varied over much of the state and generally ranged from 0 to 2 inches. Some mountain areas received up to 3 inches.

Although the rainfall amounts do not appear excessive, in areas where only a few hundredths of an inch is normal they were disastrous to crops which require dry weather to mature and dry. Crop damage was estimated to be \$309 to \$325 million. Approximately one-half of the total natural raisin crop was lost along with one-quarter of the wine grapes and one-tenth of all canning tomatoes. Crop losses also occurred for table grapes, fresh market tomatoes, beans, almonds, walnuts, strawberries, dried figs and alfalfa.

---Data supplied by Norm Hoffman, NWSFO Redwood City, California.

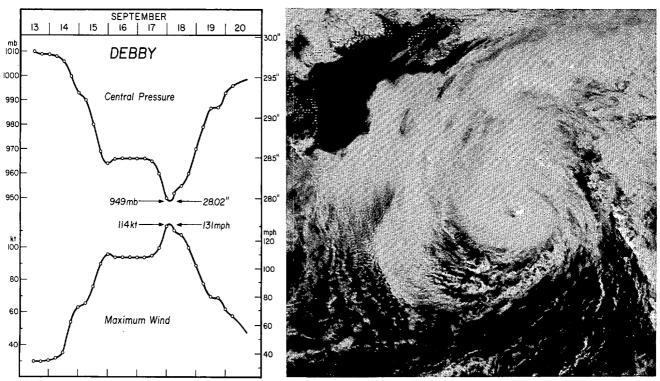
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TROPICAL STORMS AND HURRICANES



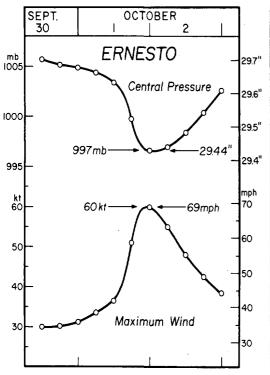
3. HURRICANE DEBBY on September 13-20, 1982

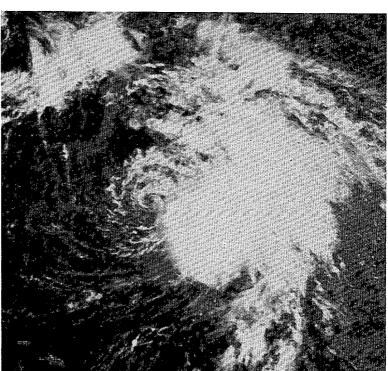
A depression which formed just north of the Dominican Republic on September 13th, quickly intensified to become Hurricane DEBBY within 36 hours. DEBBY moved north-northeast through the Atlantic, her eye passing to within 80 miles of Bermuda on September 16th. The visible satellite picture, taken at 1930 GMT on September 17th, shows DEBBY about 6 hours before reaching peak intensity (949 mb and 131 mph). Cape Cod appears at the upper left edge, and Nova Scotia at top center. ---Data and photo from the National Hurricane Research Laboratory and National Hurricane Center, Coral Gables, Florida.



4. TROPICAL STORM ERNESTO on September 30 - October 2, 1982

Tropical Storm ERNESTO lasted only three days. While moving northwest and intensifying on October 1st, it made a U-turn to the northeast and thereafter weakened as it merged with an extratropical low. A satellite picture taken at 1400 GMT on October 1st shows the cloud mass of convective activity to exist entirely to the east of the circulation center of the storm. ---Data and photo from the National Hurricane Research Laboratory and National Hurricane Center, Coral Gables, Florida.

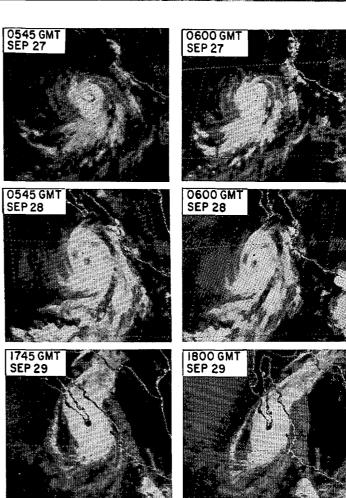




5. HURRICANE PAUL on September 19-30, 1982

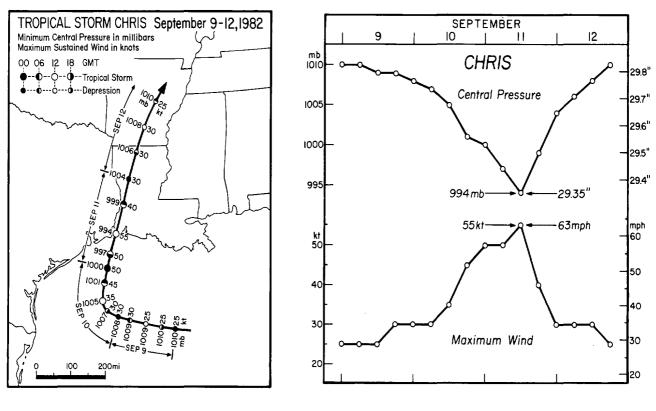
PAUL began along the Central America coast as a depression on September 19th and moved inland twice before moving out to sea as a disturbance. After reforming on September 24th the depression turned northwest on a meandering course and intensified to hurricane strength by the 28th. As a hurricane, PAUL moved north striking the tip of Baja California before making landfall over the Mexico mainland.

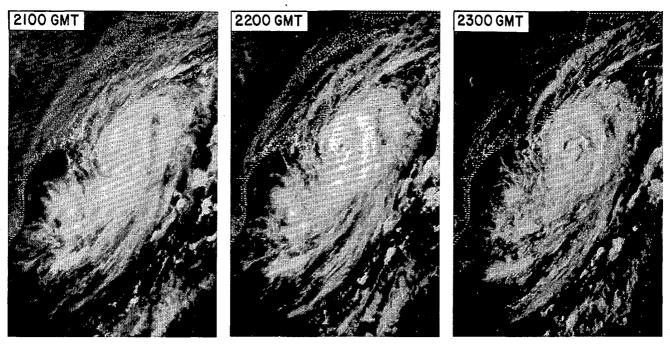
At right is a sequence of near-simultaneous pictures from the GOES West (left) and GOES East (right) satellites. The top pair of photos show PAUL as it approached hurricane strength; and, on the bottom pair of photos PAUL'S eye can be clearly seen directly over the tip of Baja California. ---Photos from NESS.



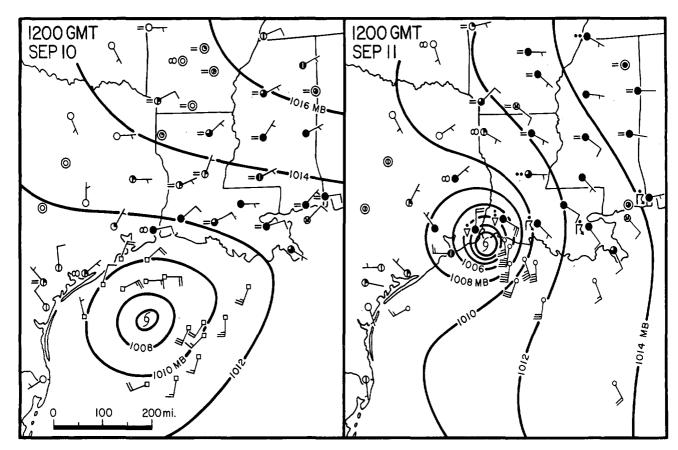
6. TROPICAL STORM CHRIS on September 9-12, 1982

Tropical Storm CHRIS was the only tropical storm or hurricane to make landfall on the United States mainland this year. CHRIS formed in the Gulf of Mexico on September 9th and moved west before turning north toward Louisiana on the 10th. CHRIS reached a peak intensity of 994 mb and 63 mph as it made landfall near the Louisiana-Texas border. Before dissipating in central Arkansas, CHRIS produced 9 tornadoes, 5 in Louisiana and 4 in Mississippi, along with heavy rains and flooding over a four state area.



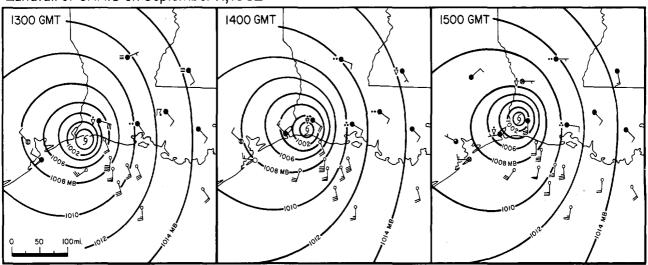


An hourly sequence of satellite pictures taken on September 10th gives 3 slightly different appearances of the storm's convective cloud structure as the sun angle slowly changes.



Surface analyses above show CHRIS at the pivotal point of its turn northward (left) and just prior to landfall 24 hours later. In the Gulf of Mexico, small squares represent aircraft data and small circles represent oil rig or buoy data.

Landfall of CHRIS on September 11,1982



The hourly sequence of analyses above show the storm's surface structure as it made landfall. The minimum central pressure was 994 mb during this period.

---All data and photos from the National Hurricane Research Laboratory and National Hurricane Center, Coral Gables, Florida.

	NO. OF ESTIMATED DAMAGE		V F PERSONS DAMAGE
PLACE	MOOF ESTIMATED STANDARD STANDARD OF COAL OF	PLACE	DATE TIME - LOCAL LENGTH OF PATH (MILLE OF PATH MILLE OF PATH MILLE OF PATH OR PROPERTY PROPERTY PROPERTY NUMBER AO 'O' BESTIWATED, DESTIWATED, DEST
1 ALABAMA		ARKANS	AS
Alabaster Area, Shelby County	02 1515CST 0 0 2 0 Wind Thunderstorm winds downed 4 or 5 large trees.	Monroe County	02 1400CST 0 0 ? ? Severe Thunder
Eldridge, Walker County	15 1500CST 0 0 2 0 Wind Thunderstorm winds knocked out electrical power and downed several trees,		A severe thunderstorm moved through Clarendon and Holly Grove. Strong winds damaged homes and businesses. Hundreds of rice and soybean acres were damaged along a 5 mile area.
Eight Mile, Mobile County	18 1705CST 0 0 3 0 Lightning Lightning struck an oil storage tank and set it ablaze. The fire was reported to still be burning 5 hours later,	Pulaski County	02 1412CST - 0 0 ? 0 Wind The Sheriff's Department reported trees blown down in the southwestern section of the county by strong winds from a thunderstorm.
Talladega Area Talladega County	18 1750CST 0 0 3 0 Lightning Lightning struck a tree that fell across a power line in the yard of a residence. The resulting fire ignited a tool storage shed. Some electrical appliances in the residence were also reported to have been damaged	Jefferson County	02 ISOOCST - 0 0 4 0 Lightning Lightning struck 11 buildings in Pine Bluff, causing major damage to one of them. Six transformers were struck. About 2200 customers were without electrical power.
Sulligent Area, Lamar County	by the lightning strike. 25 1705CST 0 0 1 0 Hail Hail 3/4" in diameter reported 3 miles west of Sulligent.	Ouachita County	02 about 0 0 ? 0 Winds 1700CST Strong winds from a thunderstorm downed tree limbs and a tree in Gamden.
Livingston, Sumter County	25 1840CST 0 0 3 0 Hail/lightning Sheriff's office reported golf ball size hail. Also numerous reports of smaller hail. Lightning struck a tree and ignited a fire.	Poinsett County	12 unknown 0 0 ? 0 Wind Strong winds from a thunderstorm blew a tree onto a residence in Marked Tree.
² ARIZONA	'	Benton County	13 1400 0 0 5 0 Severe Thunder 1530CST
Flagstaff Coconino County	6 1330MST 0 0 4 0 Flash Flooding, A severe thunderstorm with over 1 inch of rain Hail and hail caused flooding and power outages. Two inches of hail covered the ground in some sec- tions. Hail up to 1 inch in diameter covered the ground to a depth of 2 to 3 inches, 4 to 5 miles north-northwest of the city.	Washington County	major damage in Centerton. Strong winds damaged one home and one poultry house in Siloam Springs. 13 about 0 0 ? - Lightning 1600CST Lightning struck a true in Springdale, knocking it down. The true snapped power lines leading to a transformer.
Pinal County	7 1540MST 1 2 5 0 Dust Storm A severe downdraft from a thunderstorm caused a blinding dust storm with visibility near zero on Interstate 10 near Casa Grande. As one vehicle stopped, several others came from be- hind and crashed into it, causing a chain- reaction. Five tractor-trailer rigs and eleven other vehicles were involved. The highway was closed for about four hours. One person was killed, two suffered major injuries and numerous	Faulkner County	15 1530CST 0 0 3 0 Severe Thunder Storm A strong thunderstorm moved through Conway. Marble size hail was reported. Lightning struck one home, several businesses and one fire station. Several trees were uprooted. Tree limbs and power lines were downed.
Tucson Pima County	others had minor injuries. 8 1555MST 0 0 4 0 Wind A severe thunderstorm moved through the southern portion of the city with wind gusts to 64MPH at Tucson International Airport. There was some damage to power lines, roofs, signs and trees.	4 CALIFORNIA (Mendocino, Lake and Sonoma Countie	15 1200pst 17 1800pst 18 10 10 10 10 10 10 11 11 11 11 11 11 11
Tucson Pima County	9 Afternoon 1 0 0 Lightning A man was struck in the chest by lightning while playing golf. He was revived at the golf course and taken to the burn unit where he remained in critical condition until he died October 14th.	Ukiah (Mendocino)	mildew. 15 !420pst 0 0 5 5 Hail Hail and heavy rain fell for 35 to 40 min. Hail size was reported to be 1/4 to 1/2 inch in diameter with up to 3 inches on the ground. Heavy
Tucson Pima County	11 11-1300MST 0 0 4 0 Flash Flooding, Several severe thunderstorms with a total of Hail 2 to 4 inches of rain and local hail up to 3/4 inch in diameter caused considerable street flooding, closing numerous intersections. The hardest hit was the northeast side. Over a dozen persons were rescued from their stalled cars in deep water. A car was swept down Arroyo Chico, but the driver escaped without injury.	Central Valley "(Southern Sacrament and Sam Joaquin Valley)	rain accompanied the storm with water running through some down-town business. Up to .60 of an inch of rain fell in 40 minuites. Significant damage to Wine Grapes from the Hail. 23 1000pst 0 0 0 8 Rain
3 ARKANSAS		Southern Sacramento Valley	29 1000pst 0 0 4 0 Wind 1400pst
Pulaski County	01 about 0 0 ? 0 Lightning 1530CST Lightning struck several utility poles and trans- formers, leaving 500 residences and several business without electrical service in Jacksonville.		Wind gusts up to 43 mph were reported with a few trees blown down and many power lines broken. Some minor damage reported to buildings, mainly roofs.
Phillips County	02 about 0 0 3 0 Lightning 1330CST Lightning caused an explosion at a residence in West Helena, damaging 2 TV sets, cabinets, and electrical viring.		
Prairie County	02 about 0 0 ? ? Wind 1330CST Strong winds from thunderstorms blew down trees plus unspecified number of acres of rice crop near DeValls Bluff.		

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4 CALIFORNIA	A, Souther	n		•	•			•			FLORIDA										
San Bernardino County	7 1330PST Three houses destroyed by Two women in by the flyin	, two a to one	rnado of the	and to	les N	abins NW of	Josh	nua Tree	Tornado (F2) 2. ured		Leesburg, Lake County	the	shore	ief wir	e Grit	ffin r					wind n Palms area on crees and large
San Bernardino County	7 Afternoo Four funnel Palms and Jo	cloud	s were Tree.	e repo	0 orted	0 I betw	0 een 1	0 [wenty-r	Funnel Clouds nine		Air Force Beach, Palm Beach County	05 Park	09086 Polic		ted a	- a wate	- erspout	- t 3 1	- to 4 m	- iles o	Waterspout
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5 COLORADO											Key West, Monroe County	As a	rkling	er and	t of	light	ning s	truc	k the	o a wo water	Lightning oden boat after nearby_killing
Colorado Springs	7 1415 t 3/4 inch ha		l in C	Color	0 ado S	0 Spring	0 Js.	0	Hail		Kissimmee,	lig	htning		occu					t of K	her. The ey West. Funnel Clouds
Morgan County	homes in the	maged area							Lightning, heavy rain rgan, and 300 nch of rain fell		Osceola County Winter Haven,	Two	funne	l cloud s west.		e obs	erved -	10 m	iles e		Kissimmee movin
Pueblo County		T is sig		and p		graphe		miles	Tornado (F1) southwest of		Polk County	Loca	alized	strong							mobile homes in mated at \$9,000
Pueblo County ·	30 minutes a damage in a and roofs we and basemen	00 MS rea w to ba it Boo swath ere da ; floo	as bat seball one, ju about maged	ttere l siz ust e t 6 m and occur	0 ed by e had east o illes windo	0 a sev il; 3 of Pue wide wide ows br and n	5 vere included, and oken	5 thunder hes of as the 16 mile ; wides crops w	Svr. thunderstorm storm that rain fell in just		Eatonville, Orange County Key West, Monroe County	A to a co 13 A f	ornado ommuni 1312	ty of n EST - cloud w	y tou orthe	ched rn Or	lando, -	n an cau	sing n	field o sign	Tornado (FO) near Eatonville ificant damage. Funnel Cloud West moving
Northeast plains and Foothills	and the Wyor inches of ra Pinewood Lal flooding, a Weld county	rain d ning b nin; t ce, 14 long w suffe ? 1/3	order. the lar imiles with a ered cr inches	. Ma rgest s wes few rop d s of	e foo iny sp amou it of minor damage rain	oots int re Lovel r road from fell	Is and in Lar eporto land. I wash in the in 5	d plain rimer co ed was There houts. heavy	Heavy rain, hail s between Denver bunty had 3 to 4 4.73 inches at was some local Many spots in rain. Just east along with hail		Key West, Monroe County St. Vincent Island, Franklin County	Two slow 18 A w. Cour	water wly we 1855 atersp nty ne	st. EST - out was	sigh Vince	ted j	- ust of	- fsho	- ore fro	hwest - m sout	Waterspouts of Key West mov Waterspout hwestern Frankl th. It dissipa
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6 CONNECTI	сит —		i	NO RE	EPORT	RECE	IVED		,		Homestead, Dade County	A wa		out was						st of i	Waterspout Homestead.
7 DELAWARE		-	N	NGNE	REPCI	RTED					Oldsmar, Pinellas County	A to Pain 17 h also up b	ornado ns subc nomes, o uproc oy the	livision 4 of whoted treat tornade	toud of (nich r es and	ched of Oldsma received nd sha moved	down for or. The red mod subbery 110 fe	ne to derai	ornado te rool A 78 ye in the	olocks caused f damag ar old air.	Tornado (FI) in the Harbor I damage to ge. The tornado I man was pickeo He was deposite was estimated
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lm Beach County		e Beac	ch Pati	rol.	The	wate			t of Jupiter was moving west		Monroe County Miami Shores, Dade County	1	14156	out was	obse	rved ¹	+ miles	s so: -	uth of		ion. Funnel Cloud
alma Sola, anatee County		t was							Waterspout natee River near fall reported.		Bonaventure, Broward County	22 Stro	1310E	ST =	orm wi	- inds t	- olew ov	- ver s	3 severa	- Narqi	Shores. Wind
ake Worth Beach, alm Beach County	02 0855ES A waterspou toward the	t was						ake Wor	Waterspout th Beach moving		Fort Lauderdale, Broward County	Bona 23	13556	e area. ST -	. Dan	mage t	o tree	es e: -	stimate -	ed at !	Funnel Cloud Fort Lauderda
hoctawhatchee Bay, kaloosa County	02 1700ES A waterspou Niceville w	t was							Waterspout Bay south of •		Coconut Creek, Broward County	23 A ro	utive 14206 pe lik	Airport ST 0.	5 Ida bi	5 riefly	0 touch	0 ned o	0 down ir	0 nanu	Tornado (FO) developed area pano Beach.

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FLORIDA										FLORIDA						-			
West Kendall, Dade County	23 1435EST		10 Lv. tor	0 uched	0 down	3	0 entral	Tornado (FO) Dade County west		Key West, Monroe County	29 A f	0700ES		- observe	- :d 5 m	- iles	- north	ast of	Funnel Cloud Key West moving
	of the Kenda	ll area a	nd mov	ved to	oward	the s	outh s	outhwest. Only across State		Port St. Lucie, St. Lucie County	ì	wly west 0815ES		-		-		-	Waterspout
Lake Worth, Palm Beach County		was obse	- erved	- 5 mil	- es ea	- st of	Lake N	Waterspout Worth Pier moving				aterspou ant movin							. Lucie Power
Upper Florida Keys,	toward the r		-	-	-	-	-	Waterspouts		9 GEORGIA									
Monroe County								r Florida Keys No landfall.		Cobb, Fulcon,	26	1620EST			0	0	0	0	Hail
Hollywood,	24 1345ES1		-	-	_	2	-	Wind		DeKalb, and Gwinnett Counties		1840EST		-44	n - 11				
Broward County	Strong thund Course in Ho	derstorm v	vinds Dama	downe age es	d sev timat	eral ed at	trees a	at Echo Grande Golf al hundred dollars.			Cob	inderstor b County opped a l a-size, i	at 5:5 irge am	FM EST	. The	e st hai	orms al	lso ly	
South Florida	26 pre-daw		1 out	of a	evnon	tic s	cala le	ow pressure area			Met	ropolita depth of	Area.	The gi	ound hes i	was i	covere few lo	to ations	
	over the son Florida Peni The small lo	insula du ow, 29.68	n Gulf ring t inche	f of M the pr es. mo	lexico e-daw oved n	and on houser the	crosse rs tha astwar	ow pressure area d the southern t Sunday morning. d at 35 mph rt Myers where 5			•	north Fu							
	separate are The next dan Okeechobee v	eas of dar nage repol where a to	nage w rt was ornado	vere r s abou s kill	eport it 25 ed a	ed be miles woman	north and de	0130 and 0230 EST, west of Lake emolished 8 mobile after this location		10 IDAHO				NON	E REPO	RTED			
	The mesosca 0600 EST nea cancelled ch	le low pro ar Melboui necks from	obably rne. n the	exit That torna	ed th day a ido si	e Flo Woman te no	rida Po n in Mo rthwes:	eninsula about elbourne found t of Lake Okeecho- adoes were reported		11 ILLINOIS —	_			NONE	REPO	RTED			
	2 of which was 3rd tornado	vere dire with the r damage.	ctly a squal The	associ Iline follo	ated south	with of t	the me: he low:	soscale low and the . High winds damage reports were	1	12 INDIANA -				MONE	REPO	RTED			
Sanibel Island, Lee County	26 0130ES	0.5	15	0	0	4	0	Tornado (F0)		13 IOWA									
·	Island caus ming pool s	ing extens creened e	sive d nclosu	damage ure wa	to t is sev	rees a	and shi damagi	across Sanibel rubbery. A swim- ed. The damage imated at \$10,000.		North Central, Cen- tral and South Cen-		1815 CS			0	0	5	0	Severe Thunder- storms
Cape Coral,	26 0145ES1	· -	-	-	-	3	-	Wind		tral Iowa	fun	nel cloud	underst s (reco	rded se	parate	ly).	Thre	e inche	strong winds a
Lee County	Strong winds of different							ral large trees near \$5,000.			men (Fr	ts. High anklin Co	winds unty) a	destroy nd dama	ed a b ged si	uild x ot	ing on hers.	the we	streets and base est side of Hamp tree limbs were sed widespread
Bonita Beach, Lee County	26 0145ES1		- vinds	- blew	- a chu	3 rch si	- teeple	Wind off the roof of			pow	or outage	s. Sma	ll hail	fell	3 mi	les we	st of (Creston (Union
Naples,	the Beach Ba	ptist Ch								3 Miles Southeast of Villisca (Montgomery	Seve	eral funn		is obse	rved b	ıy St	ate Tr	ooper.	Funnel Clouds No ground cont
Collier County	A dozen or s	o trees v Naples Be	each C	iproot Club a	ed an	date tel Go	ennis i	fense was blown urse. Damage was		County) Southwest of Nodaway (Adams County)	, 12	erved. 1840 CS nel cloud		ed with	no gr	ound	conta	ct.	Funnel Cloud
Golden Gate,	several thou	sand doll	25	0	0	5	0	Tornado (F1)		South Central and Eastern Iowa	13	1500 CS	т		0	0	5	5	Severe Thunder- storms
Collier County	sections of one roof con	Golden Ga apletely i	ate, e remove	ast o	ol sc	les. reenii	Nine h	ugh the southern homes were damaged, losures destroyed; napped off; windows			one Cou	1800 CS area of t cornado nry while	hunders (record golf b	ed sepa all siz	rately e hail). . fel	One in l at O	ch hai: elwein	lgh winds, hail fell in Lucas (Fayette County
	popped out of	of a Chevy	/ Blaz	er; 3	othe	r cars	s damag	ged. Damage like a train was			the Oels four	hail. W wein. On nd dead a	inds of e hundr nd seve	60-70 : ed and ral oth	1PH de fifty ers ha	stro hogs d to	yed a were be se	barn 1 in the nt to s	were stripped 1/2 miles west barn, a dozen w laughter. Larg
Basinger, Okeechobee County	26 0400ES1		60	1	7	5		Tornado (F2)				es and po orded at						gust	of 58 MPH was
	Road cutting the road it The tornado tops of pine flattening a block house, pasture before caused consibuilding. A torn from it 70 feet. To tree tops. as high as 2 1 53 year ol	demolished then briefly then briefly trees, a barn and The tourse entering detailed as 30 footes stand a ailers at Three ste 0 feet of d woman we continued continued continued the stand and continued the standard trees at the standard trees a	long ped an effy 1 it the sever made ing the lamage long ind the lamage ind the lamage indicated transkips in the lamage in the	ath bounced ifted ten too then too the New to to to the metal arown after the ground the ast	eside upied off uched damag trave Cover obile he ron tank 100 fr were fram nd. I and 7	a pay doublithe gri down ing the led 2 nant (homes of and half eet. picke es wer Of the were cort d	ved coule-wide round to in an ine roof miles Christis; flyid one wifull control of the coule of	ong Eagle Island unty read, Crossing e mobile home. breaking off the open field before f of a concrete- through open ian Outreach Camp. ian Tutreach Camp. ian Tutreach Camp. ing trailer debris wall of a church of molasses was kup truck was moved and thrown into the ted around trees pale at the camp, ed, one critically. e destroying anothe \$200,000.		Six miles Southwest of Ottum-a to 5 mile Northeast of Fairfix	ed A Otto toti she Fooi nor sof lig its des (Je por are Han	unwa (Wap ally dest lter in t tball ble th of Eld tball dug were roof nea troyed at fferson C t damaged a east of	Tond a howello Coroyed. The bath achers on (Wap cout wer damaged or Bataw the Faounty). Remn the Aidamaged damaged	enty). A man, room an were de ello Co e torn at the ia (Jef irfield The H ants of rport Thre	A mob womand survestroye unty). off ar school ferson Airpo angar the H Thirte airce	oile n and rived at Al nd th ol. n Cou ort, was langa	home to child with a high so the end of score A lumb on ty). 3 1/2 the one were aircraparket	re desi hat was in the only a h school roof a cboard eryard A 40: miles ly buil strewn ft tha	Tornado (F2) croyed southwest anchored down mobile home to few scratches. ol 3 1/2 miles and sides of a and football fill lost a portion c 330' hangar we north of Fairfilding at the Air over a 5-acre were in the ne open 100 yard
Miami, Dade County	27 1400ES1		-	0	1	0		Lightning											
,	Lightning hi							rack knocking e.											

SEPTEMBER 1982

			Ξ		N). OF		IMATED†		ìГ			T	il.	I			. OF		ATED!			
	(800)	Ω	F PATH	PATH (S	PE	RSONS		AMAGE	CHARACTER	$\ $				LOCA	F PATH	PATH S)		SONS		AGE		HARACTER ,	
PLACE	DATE TIME -	STANDARD	LENGTH OF	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	OF STORM		PLACE	DATE		TIME - LOCAL STANDARD	LENGTH OF P	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS		OF STORM	
14 KANSAS										-	KENTUC	ΚY											
Sublette, Haskell County	01 0440 Lightnir half nor	ia set	; fire st of S	to sta ublett	0 icks o ie. T	0 f hay he fir	a nii re bu	le and a	Lightning , tons of alfalfa.		Portions of Pike, Floyd, Knott, Letch Perry, Leslie and Harlan counties			Morning	from t	the remna	0 ents c	0 of tr	6 mnical	4 storm	Flood	re Flash	
Kismet, Seward County		scaped			inor		ies v	vhen he v	Lightning was understorm.		narian counties	Chris sent flood water through several southeast Kentucky counties. Much of the cities of Fleming and Neon were inundated and the city of Jenkins was evacuated. Letcher county was hardest hit where over 200 homes were damaged. 5 feet of water was measured in the center of the city of											
Sedgwick and Cowley Counties	Sedgwick turned a people w of Viola Hospital	SCST storms and de were in a. Th around	Cowley molish injured ne inju mobile i 17300	r Count sed 7 m I when sred we shome CST. F	ies. niles a bar ere tr was d	A rec west on was eated estroy	reat of Co blow and /ed i	naging wi tional ve onway Spr vn away 4 released in northe	Wind nds crossed hicle was over- ings at 1640. Two miles northwest from a Wichita ast Sedgwick bs were also		idmondson County	wh wa Fl wh mo re in	ere ter emi en re sul	over 29 was me ng-Neon a dam o than l. ted and	00 hom asured and t verflo 5 mill 170 b in was	es were	damag cente of Je Leto lars w	ed. er of enkin cher orth iestr	5 fee the c s was county of da oyed county	t of ity of evacua alone nage .4.75	ted	ling	
Centralia and Kelly, Nemaha County	12 1800 1900 Fierce 1)- DCST thunde it in	erstorm Centra	ı winds	The w	rinds: a	rees also	5 0 and ripp damaged	Wind led the roof from several out-			wh a dr "f	en cul ain our	they at vert. . One	tempte The cu persor sticki	ys narri ed to war errent si estated ing out	de thr wept t that	rough them he s	ı water into a aw onl	near conci			
Shawnee, Johnson County	12 2200 Lightnir Consider	ng set					26 W.	0 . 64th ìr	Lightning Snawnee.														
Parsons, Labette	14 1900		1001 6	iamaye	0	0	(0	Hail		16 LOUISIANA												
County	small l	imbs v	vere br	oken,	but c	therwi	ise r	•	me resulted. ite hail was	We	ebster Parish	Lig	ghtr unde	rstorm	in Mi	nden, La						an intense	
		lly da s.							tes in the listed	Sı	t. Mary Parish	03 Lig	l ghtn		uck a	house i	n Ber	wick	3 , la. c	ausin	Light g consi		
	4 Wich										eff Davis Parish	1		to the	st ru	cture. 150			4		Toma	do (F2)	
											211 24110	A to	torn ruck wers	ado aco .5 mil	es we: . High	ying the st of Ro hway90 w mile lo	anoke ere ti	, La wist	. Thre∈ ≥d and	powe destr	l Storm r trans oyed. T	Chris mission he path	
15 KENTUCKY										A	voyelles Parish	11	2	130CST	. 7.	5 100			5		Torna	do (F2)	
Marion, Taylor, Adair, Russell, Cumberland, Clinton and Wayne Counties	01 Aft Severe of rain	flasi	n flood	ling re	esulte	17 d afte ated g	er ov groun	ver 5 inc	Flash Floods thes			cor	uche mple re d	d down x were lestroye	brief sever d. Th	ving the ly in Mo ly damag e path w injurie	reauv ed. A as sh	ille los, ort	, La. H at lea (less t	our a st tw han l	partmen o autom mile)	ts in a	
of south central Kentucky	10 day: of Tay it was 60 year parkin delive into a	s with lor Co the v rs. l g lot ries v	n flash bunty. worst f Water w In (when the	flood Sever Floodin vas hal Campbe neir ti	ding r ral pe ng the lfway llsvil ruck v The me	reporte ople s ople s over o le 2 m eered en esca	ed over state seem cars men work off aped	fell with ver parts ed that n in over in one were mak the road through s sucked	ing I	E	vangeline Parish	A straight	torn ruck atte 0 ya ther mes	ado ass the sm). The rds wid severl	ociato all contact tornace and y dama ed si	ommunity do moved 2.5 mil aged or gnifican	of V from es los destr	idrii sou ng. : oyed	ne (6 m th to r Approxi . Appro	iles orth. matel ximat	ical St west of The pa y 12 ho ely 20	th was about uses were	
	into a was ne Adair hours 150 bu	6 for ver for Count and s sines	ot diam ound. y6 ent al ses we	neter o inches I rive re dam	of ranged was	t pipe ain fe' of th	e. 11 w heir 2,00	The truck ithin 6 banks. 0 acres sell Cre	of	C	oncordia Parish	st: 2 i nui bu	torn ruck mile merc ilt	: 1 mile s paral ous auto brick h	ociat sout lel to mobile omes	h of Cla o U.S. H es were with onl	yton, lighwa destr y a f	La. y 65 oyed ew i	The to Eleve. The interior	Trop rnado n hou ouses wall	ical St travel ses, a were g	do (F3) orm Chris ed for about church, and enerally well ing.	
	were t roads	he hi were 1 Cou	ghest washed ntv	anyone out. orober	coul:	d remen	mber n Ru	. Numer	ous		Catahoula Parish	12 A t	2 0	050CST ado was	?	ss of 1 ? rted by reports	the pu	ıblic	: 20 mi	les s	outh sou	ndo (FO) uthwest of	
	county crop 1	exce	eded 1	.5 mil ridges	lion were	dollar damag	s ma led w	inly due ith 30	to		Richland, Franklin, Madison, and Tensas		2	early morning		,			7			h Flood	
,	bus st	ruck en an s of	a car	during ults w	a he ere i Is and	avy ra njured cropl	in s I. N ands		3		Parishes	Rains averaging 12 inches fell during a four hour period over the 4 parish area in association with the remanents of Tropical Storm Chris. The heaviest precipitation fell at Delhi in Richland Parish where over 16 inches were recorded. Damage was extensive and widespread with a total in excess of 2 million dollars in Richland Parish alone. Eighteen business establishments received major flood damage while 13 had minor damage. Approximately 187 homes were damaged of vhich 17 were destroyed. Crop losses for											
Lincoln and Boyle Counties	13 All	inch	es of	rain r	o result ern Li	ed in	the	4 evacuati west Boy	Flash Flooding on le			ho th	omes ne a	were d	amageo	i of whi 30 acres	ch 17	were	destr	oyed.	Crop 1	osses for	
	counti	ies. also al peo	Water was r	was 4 eporte	feet d at	deep i the wa	in ar ater	reas. Ma	jor t plant.			\$! \$!	ents 500, 200,	had va 000 in 000 in	rying perso agric	amounts nal prop ultural	of w erty, inter	ater \$200 est.	damage 0,000 i	. Es n pub	timates lic pro	perty, and	
												pı cc	rope ompl	rty dam	age. : erous		luded	the	high s	chool	, an apa	spread artment ates were	
																propert total da		estía	nated a	t \$25	0,000.	icultural	

There were no reported deaths or injuries during the flood event in any of the effected parishes.

	.a ∓ NO. OF ESTI	MATED!		H H NO. OF ESTIMATED											
PLACE		CHARACTER OF STORM	PLACE	PATE TIMB - LOCAL STANDARD LENGTH OF PATH (TAROF PATH											
—— LOUISIA	NA.		MINNES	OTA											
Ibería Parish	14 Afternoon 4 A flash flood occurred when a levee broke northwest of New Iberia, La. The rains whoreak were caused by Tropical Storm Christ to the levee.	ich caused the levee	Dodge County Olmsted County	12 1700-2000 0 0 4 0 Wind CST Heavy thunderstorms moving northeast through southeast Minnesot reached severe limits over Dodge and Olmsted Counties. At 1812 Rochester Airport measured winds to 62 mph. Damage was mostly											
Caddo Parish	16 Evening 2 A bolt of lightning accompanying a thunde ground traveled to an automobile where al then hit and debarked a tree.	Lightning erstorm struck the 1 4 tires were blown	Saginaw	confined to downed trees and power outages but heavy rains of around 2 inches caused minor low-land flooding. 12 1830 CST 0 0 4 0 Funnel, Mind											
Rapides Parish	16 Afternoon 3 A thunderstorm accompanied by high wind s Pineville area causing scattered areas of broken windows and downed power lines. No	wind damage including	(St. Louis County)	A funnel aloft was observed about 20 miles west of Duluth near Saginaw. Winds damaged a metal shed and a horse shelter at the site. The wind was estimated at over 50 mph.											
Orleans Parish	24 2030CST 4 A thunderstorm moving southward across th New Orleans produced a significant downbu removed roofs from 4 houses, destroyed se	rst which completely	22 MISSISSIPPI												
	and did minor damage to several other roo long and 50 to 100 yards wide. There was in the debris pattern. NO REPORT RECEIVED	fs. The path was 2 miles	Cleveland, Bolivar	12 0640CST 1 125 0 5 6 ? Tornado (FI) As the remnants of Tropical Storm Chris moved over north Mississippi, heavy thunderstorms produced a small tornado in Cleveland. The tornado touched down in the southern part of town and moved north for about one mile before lifting. The tornado destroyed a radio station shack and the towers and a mobil home. Numerous homes and businesses had damage to roofs, porches and											
			North Mississippi	windows. A church suffered major damage and a tractor-traile was overturned. Five people were injured, 4 of them in the minome. Damages were estimated at over \$500,000. 12 0830 to 4 6 Rain/ Flood.											
18 MARYLAND Carroll County	2 2000EST 0 1 0 A charge from a nearby lightning strike a a kitchen window of a home in the Smallw minster. "It felt like somebody kicked m	pparently entered through ood community near West- e in the chest", said a	Will alsotosibli	1130cST Remnants of Tropical Storm Chris moved into northern Mississippi on the 12th bring torrential rains. Heaviest hit were the Sunflo and Tallahatchie County areas where up to 13 inches of rain fell In Sunflower County 75 percent of the rice and much of the cotto and soybean crop was destroyed by rain, flooding and wind. A few homes and businesses were flooded in Inverness and Indianola.											
·	26-year-old man who was standing by the s conscious and his breathing stopped. One foot or two away, described it as looking him. A neighbor administered mouth-to-mo ambulance attendants arrived. The fortun only a few hours in the hospital, sufferi burns and sore muscles.	witness, who was only a like a rocket coming at uth resuscitation until ate man was released after	Sunflower Co.	Damages to crops alone were estimated at over 1.5 million do: 12 0830CST 0 0 4 0 Wind Strong thunderstorm winds blew over numerous sheds and tract barns just north of Indianola. A large barn and a recreation building were destroyed at a club 3 miles north of Morehead.											
19 MASSACHI	JSETTS ———— NO REPORT RECEIVED		Eden, Yazoo Co,	12 1020CST 0 0 3 ? Wind Strong thunderstorm winds destroyed an old house and damaged others just east of Eden. Considerable damage was done to confields in the area.											
			Coffeeville, Yalabusha Co.	12 1030CST 0 0 3 ? Wind Strong thunderstorm winds blew down numerous large trees causing some building and power line damage in Coffeeville.											
20 MICHIGAN 2 Miles N of Port Sanilac, Sanilac County	02 1500EST 0 1 4 Mobile home rolled over and destroyed. 1 inside injured.	0 Wind Woman	Tallahatchie Co.	12 10300ST 0 0 3 0 Wind Strong thunderstorm winds produced damage in the Murphreesboro a Springhill communities. The damage consisted of downed trees, broken windows and damage to small sheds and barns.											
l Mile S of Cedar, Leelanau County	05 1010EST 0 0 4 Barn and contents burned. 3 firefighter injured.	0 Lightning salightly	Tippah Co.	. 12 1330CST 0 0 3 0 Wind Strong thunderstorm winds blew the toof off of a barn, moved a mobil home off of its foundation in the Peoples community.											
21 MINNESOTA			Walthall, Webster Co	r Co. 12 1400CST 1/4 100 0 0 4 0 Tormado (FI A small tornado touched down briefly in the center of Walthal Damage was limited to a few sheds but a number of large trees were twisted and broken off above the ground.											
East Central	5 0630-0800 0 0 3 CST	0 Wind, Lightning	Keownville, Union Co	. 12 1415CST 0 0 4 0 Wind Strong thunderstorm winds destroyed a barn, uprooted and broke off trees in the area of Keownville.											
	An area of thunderstorms moving east the severe limits along the northern edge or politan area. Damage was confined to do power outages. Numerous lightning stril gust of 77 mph was observed near Anoka.	f the Twin Cities metro- owned trees and scattered	Houston, Chickasaw Co.	12 1505CST 1/4 100 0 0 4 0 Tornado (F1) A small tornado touched down briefly just south of Houston near Hitghway 389 uprooting trees and overturning a mobil home. A hous was damaged and large trees were blown over just east of the Natchez Trace Parkway along Highway 8.											
Benton County	12 1530-1540 3/4 narrow 0 0 5 CST	3 Tornado (F2)	Shannon, Lee Co.	12 1515CST 0 0 3 0 Wind Strong thunderstorm winds produced damage to trees and a bath in Shannan.											
	A tornado tore through a farm site 5 mi east northeast. A machine shed was kno machinery within damaged. The tornado a corn field leading to the machine she	cked down and the flattened a path through	Monroe Co.	12 1615CST 1/4 100 0 0 4 0 Tornado (FI) A small cornado touched down between Nettleton and Amory at the junction of Highway 6 and Old Highway 6. One mobil home was destroyed. Five houses and a church recived major damage.											
Dennison (Rice County)	12 1615 CST 0 0 0 A funnel aloft was observed east of Deni	0 Funnel	Pontotoc Co.	12 1745CST 0 0 4 0 Wind Strong thunderstorm winds destroyed a mobil home and a utility building in the Buckhorn community. Major roof damage was repor- to a large warehouse in Pontotoc.											
Gilman (Benton County)	12 1620 CST 1 narrow 0 0 0 A tornado skipped across the ground jus northeast direction. A path of flatten trees were left behind.	4 Tornado (FO) t north of Gilman in a ed corn fields and broken	Waveland, Hancock Co	tk Co. 15 1500CST 0 0 3 0 Wind High winds from a thunderstorm blew down trees and destroyed a small utility shed in Waveland.											

		SEPTEMBER 19
	NO. OF ESTIMATED PERSONS DAMAGE	NO. OF ESTIMATED PERSONS DAMAGE
PLACE	TIME - LOCAL STANDARD	PATE DATE LENGTH OF PATH (NARDS) LENGTH OF PATH (NARDS) NO 'DI- ESJIMATED. CHARACTER OF ATH (TARDS) DAWAGE CHARACTER OF ATH OF AT
23 MISSOURI		NEBRASKA
Shannon	1 1825CST 0 C 0 O Large Hail Hail to golf ball size at Birchtree.	Seward County 11 1900CST 0 0 4 0 Damaging Winds Thunderstorm winds blew portions off of the roof
Boone	2 0045CST 0 0 0 0 High Wind Wind gusts to 58 mph at Columbia Regional Airport.	of a motel 2 miles north of Milford. Washington County 17 0735CST 0 0 2 2 Hail A few one inch hailstones fell around Blair.
Sedine	13 1416CST 0 0 2 0 Damaging Wind Thunderstorm winds downed trees at Nelson which is 12 miles southeast of Marshall.	Box Butte County 23 0030CST 0 0 3 0 Lightning Lightning related fire destroyed a garage in Alliance.
Newton	13 1450.03T 0 0 0 0 High Wind Wind to 60 mph reported at Neosho airport.	Knox County 27 1430CST 0 0 3 0 Damaging Winds High winds caused power outages in the Crofton area for about 2 hours.
Cedar	13 1630 CST 0 0 0 0 Large Hail Hail to 3/4 inch diameter along with strong wind at El Dorado Springs.	Knox, Wayne, 28 L530CST 0 0 4 4 Hail and Madison -1930CST 0 0 4 4 Hail turn to 2 inches damaged crops, buildings and
Benton	13 1720CST 0 0 0 High Wind Wind to 60 mph at Edward.	cars.
Moniteau	13 1730 CST 0 0 2 0 Damaging Wind Wind to 60 mph produced tree damage at Sandy Hook.	and Cedar Counties Thunderstorm winds caused extensive damage to power lines, trees and buildings. A gust to 81 m.p.h. was recorded at the Norfolk Weather Service
Pulaski	13 1830 CST 0 0 3 0 Damaging Wind Wind damaged trees, an outhouse and power lines in Crocker.	Airport Station. Wind damage 3k miles west of Norfolk included a 40 foot shed blown over, a transformer pole blown onto a house, a garage moved off its foundation, and other outbuildings destroyed. A grain wagen was overturned and a
Audrain	14 1040 CST 0 0 0 0 High Wind KXEO Radio reports wind to 70 mph at Mexico.	grain bin blown over.
St. Louis & St. Louis City	14 1305- 0 0 5 0 Damaging Wind 1330CST A line of severe thunderstorms moved through the area producing widespread scattered	Gage County 29 0510CST Thunderstorm winds blew over a mobile home and totally destroyed it in northwest Beatrice. Another trailer was damage.
	damage including: A roof and windows out in Creve Coeur, carport and car in Bridgeton, power lines down in St. Ann, scattered damage to St. Louis City and additional scattered light damage to St. Louis County.	Douglas County 29 0615CST 0 0 4 0 Damaging Winds In the Cmaha area, thunderstorm winds downed trees and power lines. One home was damaged by a fallen tree. Most damage in the Omaha area was east of 72nd Street.
Barton	14 1921CST	Merrick County 29 1920CST 0 0 3 0 Damaging Winds In Clarks, near 1 inch hail and winds estimated and Hoil to 60 m.p.h. broke windows and caused roof damage.
Cedar	17 1726CST 0 0 0 0 Large Hail Hail to 3/4 inch diameter at El Dorado Springs.	Platte County 29 2230CST Thunderstorm winds destroyed 2 sheds, a lean-to and moved a mobile home that had tie downs about 3 feet off its blocks. A camper shell was carried a nile and a half away.
24 MONTANA		10.000000000000000000000000000000000000
Southwest and South Central	13- Midnight 0 0 5 5 Heevy Show 14 on 13th to evening	26 NEVADA — NO REPORT RECEIVED
	on 19th A heavy snowstorm passed across Southwest and South Central areas. The storm lasted up to 36 hours in some areas. The area of heaviest snow was over the extreme southern sections of Park. Sweetgrass, Stillwater, and Carbon Counties. Red Lodge in Carbon county received 35 inches of snow and Mystic Lake Power House	27 NEW HAMPSHIRE
	in Stillwater County received 30 inches of snow.	28 NEW JERSEYNONE REPORTED
25 NEBRASKA		· ·
Cedar, Holt, and Wayne Counties	31 2320CST 0 0 5 5 Hail and -01 -0030CST Damaging Winds	29 NEW MEXICO
wayne Councies	-01 -0030CST Bail up to 2 inches broke windows in cars and homes, damaged roof shingles and crops at O'Neill, Randolph and Wayne. Sixty m.p.h. winds with the thunderstorms blew over trees and downed power lines. Falling trees smashed cars and damaged homes at Atkinson,	San Felipe Pueblo, Sandoval County Is Afternoon
Burt County	O'Neill, Randolph and Wayne. Ol OlOCST O O 2 O Damaging Winds	Artesia to Carlsbad, 20 Aftermoon 0 0 4 0 Flash Flood Eddy County Heavy rains described by some local people as a cloudburst caused
Lancaster County	At Tekamah, thunderstorm winds caused tree damage. 04 1414CST 0 0 0 0 Funnel Cloud A funnel cloud was reported 9 miles northwest of	some damage to streets, homes, and highways from Artesia to Carlsbad. Luis Lopez, 20 Hight 0 0 3 4 Flash Flood
Holt County	Lincoln O9 1500CST 0 0 5 5 Hail	Socorro County Two to three inches of rain fell over nearby nountains Monday night causing arroys to overflow damaging 600 to 1000 acres of crops
	-1600CST Hail up to 4 inches in diameter fell in a path 3 miles wide and 5 miles long 20 miles northwest of 0'Neill, damaging crops, farm homes and buildings.	causing arroyes to overriow damaging but to 1000 acres or crops ready for harvest. Southern New Mexico, 30 Afternoon 0 0 5 4 Heavy Rains and Flooding
Vashington County	Several county areas reported ly inch hail 11 1730CST 0 0 3 0 Flash Flooding -2245CST Four to six inches of rain fell in the Blair area, flooding streets, causing water to back into some vards and basements.	and Lea Counties The remains of dying Hurricane Paul dumped four to five inches of rain from El Paso, Texas, across southern New Mexico to Lovington, New Mexico, causing damage to crops and homes.

	NO. OF ESTIMATED!		SEPTEMBER NO. OF ESTIMATED
PLACE	PATE STAMB - LOCAL STAMP - LOCAL	PLACE	TIME - LOCAL STAMPARD - LOCAL CENCTH OF PATH (MILES) WIDTH OF PATH (MILES) CROPS STAMPARD CROPS
30 NEW YORK	, Coastal —— NONE REPORTED	33 OHIO	
		Dalton, Wayne County	02 AFTN 0 0 3 0 Lightning
30 NEW YORK,	Central NOME REPORTED		Thirty-four holstein cows were killed when lightning struck a tree under which they were standing.
30 NEW YORK,	Western		
Chautauqua County	02 2000EST 6 - Wind	34 OKLAHOMA	•
Airport	Strong winds reaching more than 100 miles an hour snapped the moorings of 5 light planes. They rolled on the ground and were heavily damaged. A commuter plane suffered a minor damage on its wings.	Griggs, Cimarron Co.	Ol afternoon 0 0 ? Lightning Fire started by lightning burned approximately 50 acres of grass. Firemen from both Boise City and Keys responded to the blaze.
	A portion of the terminal's roof was peeled off. Numerous windows were broken. Debris from the blown roof was dropped and dented cars in the parking lot.	Pawnee, Pawnee Co.	06 0150CST 0 0 ? ? Lightning Fire started by lightning burned approximately 65 acres of pastureland. Local Farmers and two city fire units battled the blaze for four hours.
I	Airport landing equipment was also damaged.	Hobart, Kiowa Co.	12 1500CST
31 NORTH CAR	ROLINA		and Hail Fire started by lightning burned 36 large round bales of hay and approximately 100 acres of pas- tureland. Wind driven hail damaged appoximately 230 acres of cotton. Also several outbuildings and trees were damaged by th
MOCKSVILLE, DAVIE COUNTY	18 1700EST 1 0 0 0 Lightning	Binger, Caddo Co.	wind. 12 1505CST 0 0 ? ? Wind
SHERRILLS FORD,	A man was killed by lightning while standing by a metal gate. 18 1905EST Short Narrow 0 0 4 0 Waterspout/		Wind 30-50MPH damaged trees and power lines.
CATAWBA COUNTY	Tornado (F1) A waterspout destroyed a boathouse, six piers and damaged eight small boats.	Enid, Garfield Co.	12 1600CST 0 0 ? ? Wind Wind unroofed a house in northwest Enid. From the pictures it did not appear that the roof was secured to the walls. Other houses nearby and a barn were undamaged.
MINT HILL, MECKLENBURG COUNTY	18 2140EST 0 0 5 0 Lightning	Oklahoma City.	undanayed.
DUNN 4E, HARNETT COUNTY	Lightning caused a fire which destroyed a home and its contents. 20 Afternoon 0 0 4 0 Wind	Oklahoma Co.	12 1630CST 0 0 ? ? Wind Winds 60-70MPH were reported in northwest Oklahoma City, Warr Acres, and Bethany with considerable damage to trees and power lines.
	A severe thunderstorm moved trough Harnett and Sampson Counties, destroying a mobile home near Dunn.	Tonkawa, Kay Co.	12 1720CST 1.5 50 0 0 ? ? Tornado (F1)
CAROLINA BEACH, NEW HANOVER COUNTY	21 0000EST 0 0 5 0 Lightning		A tornado took out eleven utility poles and
	Lightning caused a fire that damaged several classrooms and the library of the Carolina Beach Elementary School.		disrupted electrial service. Also stright winds of 60MPH with heavy rain and small hail were reported over much of Kay County. Winds of 50MPH were reported at Blackwell and 30-40MPH winds were reported at Ponca City.
TOPSAIL BEACH, PENDER COUNTY	26 0730EST 1 15 0 0 4 0 Materspout/ Tornado (F2) A waterspout moved across Topsail Beach, damaged a home 2.5 miles north of the Town Hall, and then destroyed a 25 foot section of a pier on the west side of the barrier island. The tornado moved west.	Enid, Garfield Co.	12 1750CST 0 0 ? ? Wind High wind blew scaffolding which had been stacked for storage into a natural gas pressure regulator station. It took a repair crew an hour and a half to stop the loss leak.
HAMILTON 3S, MARTIN COUNTY	26 1540EST 2 30 0 0 4 0 Tornado (F1)	Okemah, Okfuskee Co.	13 1650CST 1.0 50 0 0 ? ? Tornado (F2)
	A small tornado touched down south of Hamilton where it destroyed an unoccupied house. It lifted briefly, then touched down again		Hail A tornado struck a farm just southwest of Okemah damaging the farm house, a barn and uprooting several large trees.
KILL DEVIL HILLS, DARE COUNTY	two miles to the northeast and destroyed a mobile home. 28 2125EST & 30 0 2 5 0 Waterspout/ Tornado (F2)		Reportedly a piece of glass was stuck into a post, one man trie to pull it out and couldn't. Apprently the post had been twist the glass blown in, and then it twisted back. Large hail was also reported.
	A waterspout, moving northeastward, crossed the Outer Banks at Kill Devil Hills, slightly injured two people and caused extensive damage to six dwellings and five vehicles. The tornado remained	Oklahoma City, Oklahoma Co.	13 1830CST 0 0 0 0 Funnel Cloud
	on the ground for approximately one-quarter mile, lifting momentarily before heading into the Atlantic Ocean.	Norman, Cleveland Co.	13 1830CST 0 1 ? Lightning A lightning discharge injuried a student sitting in a metal framed window. The young man was admitted to the Norman Municipal Hospital for observation.
32 NORTH DA	KOTA	Stella, Oklahoma Co.	13 1944CST 0 0 ? ? Hail
Kindred (Cass County)	28 1700CST 0 0 4 4 Thunderstorm Winds Strong thunderstorm winds broke windows, up- rooted fencing, twisted fence posts, uprooted trees, and damaged crops.	Bethel Acres, Pottawatomie Co	Golfball sized hail reported. 13 1958CST 0 0 0 0 Funnel Cloud
Larimore 18SW (Grand Forks County)	28 1715CST Funnel	Stillwater, Payne Co.	13 2250CST 0 0 6 ? Wind and Hai High winds and large hail caused considerable
Grand Forks (Grand Forks County)	28 1905CST 0 0 3 0 Thunderstorm Winds Strong thunderstorm winds tore up the front steps on a house, damaged a TV antenna and roof shingles, and moved a storage shed 70 to 80 feet.		lamage in Stillwater. The highest wind gust recorded by the Civil Defense was SZMPH at 2257CST, although citizens in the area extimated winds from 80-100MPH. Both the Airport and the University were damaged. Baseball park bleach were blown and twisted. The roof of a warehouse was blown off and into a parking lot damaging autos. Six airplanes were dam
Grafton 3SW (Walsh County)	28 1920CST 0 0 3 0 Thunderstorm Winds Strong thunderstorm winds severely damaged a metal farm building.	Edmond, Oklahoma Co.	and into a parking lot damaging autos. Six airplanes were dama 14 1745CST 0 0 ? ? Wind Winds 50MPH damaged outbuildings and blew over
Grafton 11E (Walsh County)	28 1940CST O O 4 O Thunderstorm Winds Strong thunderstorm winds severely damaged a mobile home, and blew down a garage.		some trees.

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OKLAHO	MA	38 SOUTH CAR	ROLINA
Harrah, Oklahoma Co.	14 1818CST 0 0 0 0 Funnel Cloud	Aiken, S. C. Aiken County	18 1830EST 0 0 4 0 Electrical
Oklahoma City, Oklahoma Co.	14 1835CST 0 0 ? ? Wind and Hail Golfball sized hail and high winds 6CMPH blew down trees and damaged one outbuilding in Northwest Oklahoma City.		Scattered thunderstorms, some locally heavy, caused several fires in the Aiken area. A school in Aiken was damaged by lightning.
Oklahoma City, Oklahoma Co.	14 1910CST 0 0 ? Hail and Wind Widespread reports of golfball sized hail and high winds (up to 75MPH).	Orangeburg, S. C. Orangeburg County	19 1800EST 0 2 3 0 Electrical Heavy thunderstorm moved across central S. C. ahead of a frontal passage. Numerous power
Oklahoma City, Oklahoma Co.	14 1926CST 0 0 0 . 0 Funnel Cloud		disruptions occurred in Orangeburg and Elloree areas. Lightning injured a girl standing by a flagpole in Orangeburg. A man standing by a
Newcastle, McClain Co.	14 1942CST 0 0 ? ? Wind Wind reported 75MPH with a tree blown onto the hiway.	Orangeburg, S.C.	television was "shook-up" when the television was struck by lightning.
Delaware, Nowata Co.	14 1945CST 0 0 6 ? Lightning Fire started by lightning destroyed the Delaware	Orangeburg County	20 0519EST 0 0 4 0 Electrical
	High School. Fire units from several area towns responded, some from as far away as Bartlesville. The fire was not brought under control until 0300CST due to problems getting water to the scene. Damages were estimated between \$500,000 to \$700,000.		Lightning burned warehouse, killed horse and destroyed horse trailer. Home damaged.
Edmond,	14 2004CST 0 0 0 0 Funnel Cloud	39 SOUTH DAK	ОТА
Oklahoma Co. Broken Arrow,	,	Meade County	4 0630CST 0 0 3 0 Lightning Lightning struck a home in Flandreau causing a small fire and
Tulsa Co.	14 2130CST 0 0 ? ? Wind Winds estimated at 60MPH caused some damage.	Lake County	knocking out a window. 4 0800CST '0 0 3 0 Lightning
Claremore, Rogers Co.	14 evening 0 0 3 ? Lightning A bull, two cows, and two calves were killed by lightning. The animals were under a tree which had been split by lightning.	Lake County	Lightning struck a home in Nunda causing considerable roof damage. The upstairs was filled with smoke and sparks flew from the appliances.
Comanche Co.	15 morning 0 0 5 ? Flooding Overnight rains of 4 to 6 inches caused flooding	Brown County	4 1320- 20 1760 0 0 ? ? Hail
	over much of Comanche County. Several low water crossings and bridges were damaged. Some of these were temporary structures built since the spring flooding. In Lawton about 40 residents were evacuated when the Squaw Creek drainage canal flooded.	Custer County	Hail, three-quarters inch in diameter, fell morth of Barmard. 5 1810 0 0 2 ? Hail 1820CST
	1,		Hail, one and one-half inches in diameter, fell at Custer damaging roofs and cars. The hail covered the ground.
35 OREGON-	NO REPORT RECEIVED	Meade County	8 Night 0 0 0 ? Lightning Lightning caused a fire near Spearfish, burning three-quarters of an acre of farmland.
36 PENNSYLV	ANIA, Eastern	Minnehaha and Lincol Counties	
Blair,Franklin,Berks Lehigh and North- ampton County	Thunderstorms moving across the state caused damage in some areas. In the Newry area of Blair county trees, tree limbs and utility lines were downed with one home damaged by a falling tree. Around Waynesboro, Franklin County, many trees, limbs and utility lines were downed with one house damaged by a falling tree. Near Hamburg in Berks County considerable wind damage occurred. Trees were uprooted or broken off, a travel trailer nearly destroyed, the chimney blown off and the roof torn loose on an inn and the roof and side of a barn torn off. In the Allentown area trees and limbs were downed and some damage occurred at the fair grounds. A concert was interrupted and some concession stands were damaged. One boy was hit by flying debris. An unspecified number of people received some minor injuries when glass flee from light bulbs on rides and concession stands. In Easton, Northampton County, trees and limbs were downed with at least one main road blocked by downed trees. Wind speeds of 50 to 55 miles per hour were recorded.	Clay County Lawrence County	Heavy thunderstorms persisted in Minnehaha and Lincoln Counties for almost three hours producing heavy rains and strong winds. Wind gusts to 53 mph were recorded at the National Weather Service Office in Sioux Falls; higher gusts of 60 mph were reported southwest of the city at lea. Rainfall amounts of two to five inches in the Sioux Falls area caused under and lowland flooding. Basements flooded; cars stalled in high water; and storm sewers backed up. Mater collected eight inches deep on the roof of a nursing home in Sioux Falls and leaked into hallways. Skunk Creek and the Big Sioux River in southern Minnehaha County overflowed their banks causing lowland flooding. Hartford, in western Minnehaha County, received one inch of rain in a ten minute period. 28 1730CST - 0 0 3 6 High Winds, Hail Strong thunderstorm winds along with hail of unknown size damaged three farms, five miles west of Vermillion. A farm-house window was blown out and a few outbuildings were damaged or destroyed. Soybean crops were damaged in the Southern half of the county with the heaviest damage in a one and one-half mile strip from Meckling to Hub City. 29 2300CST - 0 0 2 0 Snow An early snowfall resulted in the breakage of tree branches and caused power outages in parts of Lead and Nevada Guich.
36 PENNSYLV	ANIA, Western- NONE REPORTED		
37 RHODE ISI	AND NO REPORT RECEIVED		
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	OCAL		PATH	¥.		SONS		ATED! IAGE	CHARLETT-			OCAL		PATH	¥ TH	NO. PER			ATED!	CHIDICES
PLACE	DATE TIME - LOCAL STANDARD		LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL		(MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
40 TENNESSE	E									TENNES	SEE									
Washington County	County. Da	ay i h fl mage	looding was g nomes :	g and primar in low	flood ily t er ar	probl dropeas we	ems i s and re af	sday n sect: bridge fected	Heavy rains, flash flooding ions of Washington es and roads; by the high water. o road damage.	Gibson County	pers (age as t	3-year- ers to son. H ed 61 a chey tr	retrie e drown nd 67 ied to hich b	eve moned a were get and se	edicino around e drown to the talled	e from 08300 08300 hed wh e home due t	the ST o en ti en ti	flood n the he cur some r e high	ed hom 13th. rent s elativ water	Flash flooding through flood e of an elderly Two elderly people wept the two under est. They had been , and they lost
	flooding, a	nd s cket	some re tt High	esiden h Scho	ts le	ft the re bri	ir ho efly:	mes br:	Branch were hit by iefly. Students ed when a bridge		reac	h safe ty.	ty. :	lwo o	ther p	e o ple	in t	he car	were	they tried to able to swim to he county. Milan,
Hawkins County	.65 inches and 1.80 on 1 am & p Rain estima Hawkins Cou	of 1 Wed m ted	at 4 :	onday y (9/1 inches ing cr	(8/30). 0 for eeks	0 the da	0 incl ? y fel g pro	hes on ? I on blems i	County reported Tuesday (8/31), Heavy rain in low lying areas.		Tren As hea	nton, a nton - much as vy rais	the n 8 fe 1 situ	nbold orth, et of ation tk of	east, water was c	and was not complied	est epor ated Deer	section section in the section in th	flood ons of n city ne coll	
Greene County	though litt	le (iges were damaged, Heavy rain, flash		The		breek	subd	livisio	n was	heav	ily f	fooded,	d south Milan. Milan had one of
		ano	roads	s and	damag	ing ho	mes.	A 12-	flooding year-old girl clean up water		tot	aled 1	.3 in	ches.						Humboldt. Rainfal
	bridges and	hed- roa	-Jearol ads dan but L	ldstow maged. ittle	n are Cle Limes	a was ar Cre tone,	hard i ek wa:	hit wit s respo	th a number of posible for most Lick Creeks		off swe and tra	the a pt off all p	ea fr U.S. Isseng	om th 45W 1 ers w when	e outs mile ere sa	ide. west : ifely (A bu of Gi	us with ibson. wated.	1 8 per The l Sever	ere closed cutting uple on board was us remained upright al cars on an L&N upols through the
Knoxville, Knox County	1 1500-1				0	0	4		Heavy rain, lightning			icultu age to					he v	darcy	eith o	er \$11 million
	caused low some street flooded. F over northe	lems lyir s. our rn h	for g ng place Two le to 5 i nox Ce	going les to wer le inches ounty.	home be f evels of r	traffic looded of the ain we ed a f	forci forci e Cit; re es	he 1- to ing pol y-Count timated n a one	o 2-inch rainfall lice to barricade cy Building were d to have fallen e-story frame home d in the fire.	Carroll County	rai che cou Lav	personed out of while most of the net of the	sect McKe Seriou Cowns and Mc	ion o nzie s pro invol Lemor	of road had 5. blems lved wi esvill	l. Hu 2 incl were ith fl:	nting nes. in the podin	Floome sound income sound income sound income sound income so the	were in eported ding watch thwest luded l creeks	Flash flooding of drove into a 17.43 inches of is widespread but quarter of the funtingdon, Atwood, in the area
	Lightning a cable. Second Cree	ppai k ru	ently	came	into	the ho	use v d's F.	ia a Cl air als	B antenna and	Crockett County	12	i babc	ic T na 1	ng bi	ian Ci	0	0	?		Flash flooding, heavy rains
Pickett County	the north e	ntra	ance to	o the	Fair 0	for a	time. ?		Heavy rain, flash			age as				heavy	rain	ns was	confi	ned
	acres of cr Conservation tobacco.	imai opla n St	rily ag and acc	gricul cordin	tural ig to ips af	land. the Ag	Dam ricul incl	age occ tural S uded ha	flooding curred to 6300 Stabilization and ay, corn and	Dyer County	was	age fr mainl the Fo	y to d	rops eer F	and cr	oplan and Po	d ala	ong th	oding e Midd Water	Flash flooding, heavy rain te and North Forks was 10 feet deep water and closed.
Pall Mall, Fentress County	stranded 10 was the pri	(es ing 5 e: mary e m	which lementa y cause obile	force ary st e of t home w	d the udent he fl as sw	evalus for coding	6 ho ation a sho as i ay by	urs) control of 25 of time time the f	to 30 families and e. The Wolf River out of its banks. lood waters. Two	Madison County	12 13 Hea	& vy rai	ns cai	sed o		0 to cr	0	0	5	Heavy rains
Oneida Scodt County	2 0900-1 After four on Thursday midmorning. Water was 1 On the soul Creek rose.	cons (2) Ti to	secutiond) can he hear 4 fee ide of .S. 27	ve day used s vy rai t deep Oneid in He	o s of swolle in con o in t la, pe	rain, en cree stinued the mid cople e	? ks to into way o	? rains leave the 1 of the ated the	Flash flooding, heavy rains their banks at ater afternoon, Scott County Fair. eir homes as Pine 2 feet of water.	Kingsport, Sullivan County	Pla	Tri-G ween O oding oof on maging ugsport ice.	000 at was wi a clo much o inclu	Airpo nd 080 idespr othing	00CST (read or stori	while ver the coll nandis nok Ro	King e no: apse e in: ad, l	sport rthern d from side. Millye	record porti the w Harde Stree	ed 3.7 inches. on of the county, eight of the water of hit areas in t, and Sherwood
Cleveland,	water. Oth	er ousi T	abacr assasn	were o	overe	ed with	1 to	2 fee	over one foot of t of water flooding Hail	Lawrence County	whi Lig	htning syste	was o troyed	the k the	Kuha's build	s Buil iing a	ding roun	of a f on th d 1430	e Lawr CST da	Lightning enceburg Square. maging the electri- about 2 hours
Bradley County Savannah, Hardin County	One-half-i	T bucl	lwas o	bserve	ed ab:	out 2-1	1/2 mi		Funnel cloud		lat	er.								
West Tennessee	Coast Saturain. As occurred in Carroll, G	T s o day he th bso t r	f Trop and S wather e cent n, Cro ain ap and t	ical S unday moved ral se ckett, parent he sou	See Storm bring d acro ection Dyer tly fe	indivi Chris ging wi oss Wes n of We r, Hend ell ove n half	moved th it t Ten est Te lerson er the of Gi	i north t abund nnessee nnesse n and M s south	es flash flooding ward from the Gulf ant moisture and , heavy rains e primarily in addison Counties. west quarter of ounty. Rainfall ounty.											

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		CAL	РАТН	<u> </u>		OF SONS		MATED†)CAL		РАТН	Ŧ	NO. PERS		ESTIM/ DAM		
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LA	STANDARD	LENGTH OF F	WIDTH OF PATH	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
41 TEXAS, Nor	ther	n								TEXAS, S	Sout	her	'n							
Near Cooper, Delta County	2	1540CST			0	Э	?	?	Windstorm	Kendall County			CST			0	D	?	?	Flash Flood Thunderstorm wind
	The unkn	storm, wh own amoun	ich was a	accomp	panie	d by i			de of Cooper. hail, caused an		Count Siste of Si	ty, p erdal isten	roduc le. J dale	ing w ust a and c	inds tha fter 15: ontinued	it top 10 CST unti:	pled hear 1 17.	severa vy rain 30 CST.	ıl tree ıs bega Duri	tral Kendall s just south of n falling south ng that 2-hour
Duncanville, Dallas County	Amat	1601CST eur Radio uncanvill		s reco	0 orded	0 60 MI	? PH wi	? nds for	Windstorm a short time		7 mil The r which	les s resul h, ir	outh outh outing : turn	of Sir runof , cau:	sterdale f forced sed the	and : Wasp Guada	no mo Crea Lupe	ore tha ek to o River	n 10 m verrun to ris	an area centered iles in diameter. its banks e sufficiently to
Tyler, Smith County	15	1545CST			0	0	?	?	Windstorm and Lightning		damaq raini	ge wa fall	s to obser	these vers	two roa	ds. :	It i: mile:	s inter s north	esting , sout	he only reported to note that h and east of the ain or less.
	busi dama	ness in s ge to sev	outheast	Tyles	c. L	ightn:	ing s		at least one caused minor	Hearne, Robertson County	A for	ur-ye kille	CST ear old ed when	n he	standir was stru	l ig out: ick by	0 side lig	0 his ho	O ome jus from a	Lightning t east of Hearne nearby storm.
41 TEXAS, Sou																				
Humble, Harris County	A th	understor	moving						Tornado (F1) y County produced Harris County:	41 TEXAS, Wes										
	Witn Humb "tra	esses obso le along i in sound"	erved the its mile- as the t	torn long ornad	ado a path. lo pas	as it. The	_damaq ey rep nearby	ged seve ported l /• Fou	eral homes in hearing a roaring r workmen in a	Post, Garza County	Thur		torm v		to 60 mg	0 oh dam	0 aged	4 power		Wind and blew
	find on t	shelter i ne men, ki	in the bu	ildin ne and	ıg. 1 Linju	The to uring	ornado two.	collar Minor	ching and tried to psed the structure damage was of the tornado	El Paso, El Paso County		Ever	-			0	0	5		Flash Flood
	and i	orief, hea	avy rains se in the	prec pare	eded nt th	it. nunder	Rada	obser	vers reported a sity about the		.60 30 m	aging inch minut	seve: in 5 es, 2	ral h minu	omes in tes, .90	El Pas inch	in :	The es	tablis tes, l	Mexico, hed records are: .44 inches in nches in
Orange, Jefferson Counties		0400 CST- 0900 CST			0	0	6	4	Tropical storm	Seminole, Gaines			ites. GCST	Touci	ned down	. 0	9	5	0	Tomado (F1)
	Arth at 5 gust 5 to	ar area. 5 mph with ing to 51 6 feet.	The high higher mph near	est s gusts Sea	ustai . Wi Rim S	ined w inds a State	winds along Park,	offsho the co , with	I near the Port re were estimated ast were reported the highest tides e only reported		stru seve out	uck a eral buil	a mobil others ldings	ched o le hor s were in th	lown bri ne park. e damage	Four d. So ity.	r mod ome d Nind	bile ho damage	mes we to pow	eminole. It re demolished; er lines and injured with
	floor estinath of S Anot gene	ding was i mated at (ur and a (abine Pass her offsho ral, less	in Sabine 3200,000 55-foot u s. All t ore crewb	Pass to a tilit hree ooat w	and restary boa crewr	was m aurant at was member ashed	minor t on E s sunk rs of ashou	floodi leasure about the sh	ng. Damage was e Island in Port 9 miles southeast ip were rescued. Sabine. In ong the upper Texas	El Paso, El Paso County	The of E	afte rema El Pa	150. I	f Hur Rains	in exce	ss of	2 i	nches d	acific Reposit	Flooded much ed rocks pickup truck
Real, Bandera, Uvalde Counties	13	line. 1230 CST			0	0		?												ult to estimate.
	movi:	ng eastwar derstorms	d across	nort nuch c	hern of the	Mexic west	co con tern a	bined indicent	per level impulse to produce tral portions of 11 Country about	42 UTAH										
	0600 acros amou	CST and bes much of nt was jus	y noon a E Real, E st over 5	ecumu Bander inch	latio na and nes at	ons of Uval Leak	f 3 to lđe Co key in	o 4 inch ounties o Real (nes were reported . The greatest County.	Utah County Provo			39MST				0	4	0	Tornado (FO)
McFaddin, Victoria	afte were		damages	were	repo	orted	altho	ough J.S	ing shortly S. 83 and FM 337 Funnel cloud		Air po snapp	ed da ort. ped :	amage The p the ba	to a lane ck wh	tah Lako small a: was tied eel tie . The to	irplan I down down	e at , bu and	the Pr t the v flipped	ovo vinds i the	
County	A fu				-		ear Mo		. The parent	Salt Lake County			nderst			0	1	7		Flood
Livingston, Polk County		1500 CST		50	0	0	5	0	Tornado (FO)						produce	reco	rd aı	nounts		
· .	dest No o	roying a l ther damag	lumber sh ge was re ge tornad	ed an porte lo. I	id dam id. S	maging Small	ga bu hail	irner at and hea	of Livingston, t the lumber yard. avy rain derstorm were		raini of ra hour tiona betwe	fall ain v rain al A: een l	over : hich : fall : irport 10 AM	north set t' amoun occu MDT a:	ern Utal he all to at the red on S nd II Ph re in th	ine resident in the second in	hear ecord Lake , Se Rain	viest p d for a e Inter ptember nfall a	eriod 24 na- 26, mounts	
Jourdanton, Atascosa County	Stro		rees wer	e als	o blo	own ov	ver by	the s	Thunderstorm winds mobile homes in torm. Small hail		for a mount dying storm uce the liy hount opolis	most tains g hur m, wh the p heavy tains itan	of the stotl ricans alch was breeip; in the stotl area.	e val he eas e Olivas movitation vo pas he eas These	Ley and st. Trop via fed ving into on. The reficular st of the canyon are com	3.5 to ical r moistr to the rainfa canyo ie Sali is, Bia iposed	o 4 : moist area all cons t La: g and most	inches ture fr to a Pa a, to p was esp in the ke City d Littl	in the om .cific rod- ecia- Wasatc metr- e gran-	h
	-										ite w The c uniqu entir Lake	which chara ue, i rely Vall	allow oterial is the by ra: ey hav	vs a : stic (fact infal ve be	Large peof this that the L. Past on due to the thing the things of the t	storm storm e flood floods	nge o which od wa s in	of runo ch make as caus the Sa	ff. s it ed lt	

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UIAH		45 WASHINGT				•		•	•		Daniel Marid		
	This is not an exhaustive review of the numerous details of damage. Damage costs have been estimated by state agencies to run in excess of 15 million dollars. Destruction took the form of washed out roadways and bridges, mudslides over several canyon roads, and flooded houses and mobil homes. by over 2000 homes received damage and 200 people	Walla Walla County 15 ESE of ALW					d near	the \	o Walla	Walla	Funnel Cloud		
	were evacuated during the course of the flooding. Flood damage to homes ranged from minor basement	46 WEST VIRG	INIA										
	flooding to major structural damage as Big Cotton- wood Creek cut a new path through a housing divi- sion. A condominium complex received extensive	Mingo, Logan and Wyoming counties		idn- 700EST			0	0	6	3	Flooding		
	damage, as did a mobile home park along the Jordan River which runs through the city. Road damage was greatest in Big Cottonwood Canyon where many sections were made impassable to all but foot traffic. One section of road lost an entire lane on the creek side for about 1/4 mile. The roadbed was completely washed out in another place. Mudslides blocked the roads in several canyons. A two lane bridge on 6600 South which crosses Little Cottonwood Creek was washed out. Several Interstate 15 underpasses in the Midvale area were flooded such that auto traffic could not cross during the course of the flooding. Murray City Park, along Little Cottonwood Creek, was filled with water during the flooding. This park, as are others in the area, is designed to hold a certain amount of flood water. The pressure in the sever system in the City of Murray was such that water lifted drainhole covers and shot 10 feet in the air in places. No fatalities occurred. However, one woman nearly drowned when she suffer-	47 WISCONSIN	inchs wi in Mingd along the county thouses and and seven Signific Creek in Costlier road sys	ver por s in so ere common count of count of count of count of count of the count o	tions uthwes mon. y. Ne th of ong th ile ho s were	of Ming tern WV Hardest arly ev the cre e creek mes wer damage	go, Lo /. 2- t hit very s eek wa k was re pus ed.	gan ar day ra was th mall p s wash heavi' hed or	nd Wyo ainfal he Elk privat hed aw ly dan ff the ong Ma	ming ls of Creek e brid ay. T aged. ir fou	3.5 to 4.5 ge he Some ndation		
	However, one woman nearly growned when she surjet- ed an epileptic seizure and fell into a pond of flood water.	Viroqua area, Vernon	on 01 0300CST ? ? 0 0 ? 4 Hail										
Washington County Springdale	27 0030MST 0 0 6 0 Flash Flood Heavy rainfall moved southward from the Wasatch	County	Hail of unknown size damaged farm crops in the area between Viroqua and Westby. Heaviest hail fall was just north of Viroqua.										
	Front to inundate portions of southwestern Utah late Sunday night, September 26. Eastern por- tions of Washington County in the vicinity of Zion National Park received an estimated 2 inches or more rain late Sunday night. The flash floods flushed up to two feet of debris and mud from two ravines leading from West Temple Mountain	2 1/2 northwest of Blair, Trempealeau County											
	into the heart of Springdale. One resident heard the flood approaching and reported that it sounded just like a "jet airplane". Boulders the size of cars were reported to have filled drainages and culverts. One unit of the Zion Park Motel was nearly filled with mud according to the Mayor of Springdale. The canyon road to the Divis college amphitheater was washed out along with the city	Bruce area, Rusk County	A torna 5 miles ake, no dissipa horth-no	s south ortheas ted nea	east o t acro r the	f Bruce iss High Soo Lir	e, nor nways ne rai	theasi E and	t acro 8, th	ss Cal en	ey		
	amphitheater was washed out along with the city baseball diamond. The Zion shadows trailer court was devasted by mud and a campground north of the trailer park was also washed out. Damage was estimated at around 800,000 dollars.	South of Eau Claire to Altoona, Eau Claire County	of High norther norther houses	rnado f hways F ast thr ast fro were d	and I ough e m ther amaged	200 couched I south extreme re into i, many on, and	n of E south Altoo sever	au Cla ern E na. ely,	aire, au Cla Twenty in the	then m ire, a -five Burge	oved nd ss		
43 VERMONT	NONE REPORTED		Square	Ma11.			4130	ui ouin					
44 VIRGINIA		Menomonie area, Dunn County	A smal area a There	long Hi	ghway e dama	ige to	t nort	h of l	Highwa	ıy 12.	Tornado (F1) m		
Loudon County	2 Locally heavy thunderstorms developed ahead of a cold front between 6PM and 9PM. At Leesburg airport, some damage was reported, including a parked aircraft that was overturned.	Downsville, Dunn County	12 18	BOOCST	?	?	0	0	6	5	Tornado (F2)		
James City County	3 0015EST 0 0 3 0 Lightning Lightning struck a convenience store in the town of Norge. The roof of the store had three holes punctured into it, and the cupola was shattered and sent into the parking lot. Some electrical dam- age was also reported.	Wheaton and Tilden Townships, Chippewo		s and 3 res of a	trail crops 10	er home were al	es in Iso de O	the Do stroye	ownsvi ed. 5	lle ar			
Wise County	14 Rainfall of up to 5 inches in a 6-hour period, occurred during the early hours of the day, and triggered rapid rises in streams. The town of Pound was hardest hit, with roads leading into the community blocked by up to 5 feet of water. Over 100 inhabitants had to be evacuated as their homes were threatened. An estimated \$1.7 million loss was inflicted upon homes, businesses and private roads and bridges. Demage to public roads and bridges was figured to be around \$137,000.		down of lighway lands 150 ya: expandd wheaton buildin of farm extends 29 and county Tilden tornade	n the D 12. T in sout rds in ed to a n Towns ngs, 15 n land ed from County roads Townsh	unn/Ch he 10- hweste width, bout o hip. piece plante just T nor N and ip in	rippewa mile co ern Chip but the ne mile The ton s of fa d in co north o theast S. Fiv thunder	count ontinu opewa ne are e in w rnado orn an orn an orn an or Hig to ne ve incrstorm	y line ous pa County a of l idth damage chiner d soyl hway ar the hes o	e just ath th y aver high w in nor ed 23 ry and beans. 12 acr e inte f rain ompany	north irough raged a rinds theast farm 1 650 a The ross Hi irsecti i fell ring th	farm bout cres path ghway on of across		

														SEPTÉMBER 19
	OCAL	PATH	NO. OF PERSONS	ESTIMATED [†] DAMAGE	CHARACTER			OCAL	PATH	, ATH	NO. O PERSO		ATED!	CHARACTER
PLACE	DATE TIME - LOCAL STANDARD	CENGTH OF PATI	KILLED	PROPERTY CROPS	OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF	WIDTH OF PATH (YARDS)	KILLED	PROPERTY	CROPS	OF STORM
WISCON	SIN					51 PUERTO R	ico		•	•		· · · · · ·		
Eau Claire,	12 1827CST	5 75	0 0	6 0	Tornado (F2)	Southern Section	12-1	3 PM-AM			1	0 6	C	Heavy Rain, Wind
Eau Claire County	The tornado 1 85 in Brunswi Eau Claire. touched down then touched was on the greentinuous 5- tornado damag slightly.	ick Township It lifted j again over down again round about mile path.	, then moved ust before h Half Moon La in Carson Pa 2 1/2 miles In Eau Clai	I northeast dighway 12, ake, lifted a hike. The toron the distinct, the	into again, rnado		Puer wind of t move vici the near this	to Rico ; s which a he island d off Pue nity of a Guayanil ly 13 inc area cas	generate affected d. The erto Ric the east La-Peñue thes rep used flo	ed heavy I primar disturb to to be tern Bah elas-Yau orted a	rains, ily the ance ir come tr amas. ico area it Peñue	thunder souther creased ropical so The heav with the las. History	storms n porti in inte torm De iest ra e highe gh inte a river	nsity as it bbie in the ins fell in st total of nsity rains in into the town
Cornell, Chippewa County	12 1845CST A weak tornac Cornell. A t	lo touched d			Tornado (F1) ear		where a number of commercial and residential establishments were affected. Another high rainfall area of 8 to 9 inches fell over the southeastern sections around Humacao and Naguabo. One man drowned near Naguabo when the car in which he was a passenger left the road into a swoller stream. There was considerable damage to roads with a number of landslides in the interior sections. Gusty winds associated with thunderstorm activity felled a number of trees and caused some minor crop damage. Civil Defense reported about six hundred families evacuated to to shelters mostly in the Guayanilla-Humacao municipalities.							
Sturgeon Bay area, Door County	19 1700CST- 2000CST Scattered are and Sturgeon the east side four inches d	as of hail Bay, with t of Nasewau	ne heaviest	amounts on	Hail									
						52 VIRGIN I	SLAN	DS —		NONE	REPORT	TED		
48 WYOMING														
Carpenter, Laramie County	inches of ra	in and some damaged bean winter wheat	high winds o s, packed do planting an	caused up to own just-pla nd ensilage	Hail d by up to two 50% damage to nted wheat fields, cutting in an area	53 PACIFIC -		•	v - div	— NONE	REPORT	EO .		
Counties: Yellowstone National Park, Park, Hot Springs, Freemont, Big Horn, Sheridan, Johnson, Natrona	This late sur northcentral motorists, le closed sever with some snr Lander 16.9 12 to 18; Por Damages from	and central eft thousand al roads and ow depth rep inches; Stor well 5; Sher the storm t of dollars.	Wyoming whis of people schools. forts as of 1 y 10; South idan 4-1/2; o property at the six ki	heavy wet sn ich stranded without ele The areas mo noon on the Fork of the Cody 3-1/2; and crops ar										
49 ALASKA														
South Central	15 1000- 1400 AS	T	0 0	5 0	High Wind									
	A strong wear producing straide of the There was constructural designations.	rong winds a city. Wind nsiderable s	long the mo gusts were sinor damage	untains in t estimated at and some lo	the east : 90 mph.							•		
Northwest	15- 16		2 ?	2 0	Heavy Rain							•		
	A strong ban rain to Nort on the 15th were lost in	hwest Alask cresting we	. The Noat	ak river ros	se 15 feet	4								•
West Coast	19- 20		0 ?	5 0	High Wind and Sea									
	An intense s west coast of of Akiak, Ak wind demage oil rig plat and went agr	f Alaska on iachak and l and were dec form under	the 19th an Russian Miss clared State tow in the B	d 20th. The ion sustains disaster ar ering sea br	e villages ed heavy eas. A						٠			
50 HAWAII										•				
Oahu	l 1100 - 1400HST Heavy showers minor overflow Kahuluu area m	v of streams	draining in	3 0	Heavy Rain									

	1	70	RNAD	nes	-		1411	STOR	us		WINDS	TOP	ς		Hen	TNING			E1.00	DING	_	@HEA	VY SN	OWST	ORMS	<u> </u>	ICE C	TORMS			ALL		=
	<u> </u>	T 10		Γ	ш		Ι'''	+DA	MAGE			Γ.	AAGEI				1AGEI			·	1AGE				IDS JAGE				MAGE				
STATE .	NUMBER	DAYS	DEATHS	INJURIES	1 DAMAGE	DEATHS	INJURIËS	PROP. ERTY		DEATHS	INJURIES	PROP. ERTY		DEATHS	INJURIES	PROP. ERTY		DEATHS	INJURIES	PROP. ERTY		DEATHS	INJURIES	PROP- ERIY		DEATHS	INJURIES	PROP. ERTY		DEATHS	INJURIES	PROP. ERTY	CROPS
Alabama Arizona Arkansas California Colorado	1 1	1 1		2	?			3 4 5 5	5 5	1	2	2 5 4 6	?	1		3 4 5				4 5 4	? 4												8
Connecticut ≠ Delaware Florida Georgia Idaho	7	4	1	7	5							4		1	6																		
Illinois Indiana Iowa Kansas Kentucky	1	1			6				5 ?		2	5			1	4	4	1	21	6	6												
Louisiana Maine ≠ Maryland & DC Massachusetts ≠ Michigan	5	2			5						1	4			1	3				7								i					
Minnesota Mississippi Missouri Montana Nebraska	2 4	1		5	5 6			6	?			4 5 5				?	?			4 6	6 6			5	5								
Nevada # New Hampshire # New Jersey New Mexico New York												6								5	4												
North Carolina North Dakota Ohio Oklahoma Oregon #	3	2			6			?	?			4 5 6	4	1	1	5 3 6	?			5	?											4	
Pennsylvania Rhode Island ≠ South Carolina South Dakota Tennessee								3	?		1	3	6		2	4 3 5	?	3	1	3 6				2									
Texas Utah Vermont Virginia Washington	3 1 2	3 1 2	1	11	5 4							3		1		3			1	6 7	? 6 4												
West Virginia Wisconsin Wyoming	7	1			6			4	5 4							4				6	3		6	6	6								
Alaska Hawaii Pacific Puerto Rico Virgin Islands											?	04						1	?	2 3 °6													

REFERENCE NOTES

1.	Storm damage categories	are from *	Miles instead of yards
	1 to 9 as follows:	**	•
	1 Less than \$50	0	Includes crop damage
	2 \$50 to \$500	. 0	Includes heavy sleet storm
	3 \$500 to \$5,000	#	Freezing drizzle and freezing
	4 \$5,000 to \$50,000		rain, commonly known as glaze
	5 \$50,000 to \$500,000	#	Not received or incomplete
	6 \$500,000 to \$5 Mill	ion	
	7	illion	
	8 \$50 Million to \$500	Million	
	9 \$500 Million to \$5	Billion	

"F" SCALE DEFINITIONS

	40-72	MPH	Breaks branches off trees; signboards damaged.
1 =	73-112	MPH	Peels surface off roofs; trailer houses pushed or damaged.
2 =	113-157	MPH	Tears roofs off frame houses and outbuildings; cars blown off highway.
3 =	158-206	MPH	Windows of skyscrapers smashed; frame houses destroyed; cars lifted off ground.
4. =	207-260	MPH	Skyscrapers twisted; frame houses leveled; cars blown some distance.
5 =	261-	MPH	or greater.

USCOMM-NOAA-ASHEVILLE, NC 1982-3000

DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA AND INFORMATION SERVICE
NATIONAL CLIMATIC CENTER
FEDERAL BUILDING
ASHEVILLE, N.C. 28901

POSTAGE AND FEES PAID U.S. DEPARTMENT OF COMMERCE

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THIRD CLASS
BULK RATE

